



New Hampshire Geological Survey's Annual Geologic Mapping Workshop 2012

Tuesday March 13, 2012

9:00 AM – 12:30 PM**

NHDES Auditorium, NHDES, Concord

29 Hazen Drive, Concord, New Hampshire 03302-0095

Public Session Agenda

- 8:30 – 9:00 AM **Coffee and Donuts and Poster Session***
STATEMAP product maps on display
- 9:00 – 9:10 **Welcome and NHGS Program Update:**
Rick Chormann, NH State Geologist – Programmatic Update
- Guest speakers:**
- 9:10 – 9:40 **Shane Csiki, New Hampshire Geological Survey** - *"Fluvial Erosion Hazards and Tropical Storm Irene."* The erosion and ensuing damage that occurred in the North Country as a result of Tropical Storm Irene will be described along with how NHGS staff contributed to the overall state response. A program update on the status of the Fluvial Erosion Hazard program will also be provided.
- 9:40 – 10:10 **Jeremy Nicoletti, New Hampshire Geological Survey**– *"Pioneering valley wall delineation using LiDAR for hazard mitigation mapping."* The ability to automate valley wall delineation for purposes such as mapping flood inundation and fluvial erosion hazard zones is advancing due to new terrain analysis methods and recent availability of high resolution elevation data. This presentation will overview remote mapping methods recently developed by the NHGS and will showcase elevation data instrumental in digital landform analysis.
- 10:10 – 10:30 **Break**
- 10:30 – 11:00 **Greg Walsh, US Geological Survey** - *"The new bedrock geologic map of Vermont map and how it relates to new bedrock mapping in New Hampshire."*
The FEDMAP component of the National Cooperative Geologic Mapping Program is focused on producing new 1:24,000-scale bedrock maps in New Hampshire. Specific emphasis along the Connecticut River Valley will address edge-matching issues identified as the result of the creation of the new bedrock geologic map of Vermont (Ratcliffe and others, in press).
- 11:00 – 11:30 **Peter Valley, US Geological Survey** – *"Status of bedrock mapping in the Claremont North quadrangle."* Preliminary 1:24,000-scale mapping covering about 75% of

the Claremont North quadrangle reveals a complexly folded and faulted region of metasedimentary and metavolcanic rocks. Rocks here are deformed by at least three major periods of deformation and are intruded by granitic magmas of the Bronson Hill arc.

- 11:30 – 12:15 **Brian Fowler, NHGS STATEMAP volunteer** - *“Surficial geology, Mt. Washington and the northern Presidential Range”* - New interpretations of some well-known features and their climatic implications.
- 12:15 – 12:30 **Mappers’ Reports on Surficial Maps completed in 2011
by the NHGS at 1:24,000 scale:**
- Henniker Quadrangle Surficial Map (Carl Koteff)
 - Claremont North and Windsor Quadrangles, Surficial Maps (Carol Hildreth)
- 12:30 **Questions and closing remarks**
Rick Chormann, NH State Geologist
- 1:00 – 1:45 ***Private Working Session for NHGS Mappers in DES Rm. 110C**
Mapping contractor meeting for those who map for the NHGS under the STATEMAP program.

Directions to NH Department of Environmental Services
The main offices of DES (including the New Hampshire Geological Survey)
are located at 29 Hazen Drive, Concord, NH.

From the South and West

Take I-93 north to Exit 14 turning right at the end of the exit ramp. At the third light (at top of the hill) turn left onto Hazen Drive. Turn left at sign for Health & Human Services. Visitor parking is available in front of building.

From the North

Take I-93 south to Exit 15E onto I-393. Take Exit 2 and turn left at end of exit ramp (East Side Drive). Stay to the right and turn right at light onto Hazen Drive. Turn right at sign for Health & Human Services. Visitor parking is available in front of building.

From the East

Take Route 4 west to Concord (Route 4 becomes I-393 in Concord). Take Exit 2 and turn left at end of exit ramp. Stay to the right and turn right at second light onto Hazen Drive. Turn right at sign for Health & Human Services. Visitor parking is available in front of building.

Note: Those planning to attend need to pre-register by contacting NHGS by email: geology@des.nh.gov, or by calling 271-1976

Attendance at the public session part of the workshop qualifies for 3.5 CEU's

*Posters will be on display throughout the workshop in the break area

** NHDES employees should confirm their attendance and schedule of the workshop with their supervisors